Cited Reference 7.

PATENT ABSTRACTS OF JAPAN

(11)Publication number :   10-091760

(43)Date of publication of application : 10.04.1998

(51)Int.Cl.   G06T   1/00

G06T 17/00

G06T 15/00

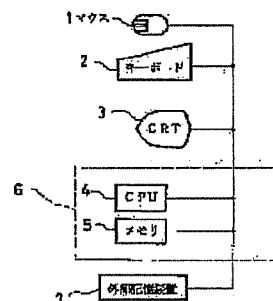(21)Application number : 08-243844   (71)Applicant :   OKI ELECTRIC IND CO LTD

(22)Date of filing :   13.09.1996   (72)Inventor :   MURATA SHINICHI

(54) THREE-DIMENSIONAL TOPOGRAPHY OUTPUT METHOD AND DEVICE AND RECORDING MEDIUM

(57)Abstract:
PROBLEM TO BE SOLVED: To show a cliff part of a coastline by outputting a
topography based on the elevation value of both land and sea sides that are decided
for each apex of a polygonal line showing the coastline.
SOLUTION: A CPU 4 reads data on a grid point and its elevation value, a string of
apexes of a polygonal line showing the coastline, the color information, the light
reflection coefficient, a texture pattern, etc., out of an external storage 7 and write
them in a memory 5. Then the CPU 4 calculates an intersecting point between a mesh
having a grid point as its apex and the polygonal line of the coastline and also divides
every polygon divided into plural areas by the coastline included in the mesh into
triangles having the grid points as their apexes. The elevation value of the land side is
calculated based on the elevation value of four apexes of the coastline mesh including
the apex of the coastline and via the geometric linear interpolation. Furthermore, The
CPU 4 draws the polygons of both land and sea and the polygon of a cliff based on the
difference between the land elevation value of the decided apex of the coastline and
the sea elevation value having an elevation of 0. Thus, the three-dimensional
topography approximate to the actual one can be obtained.

LEGAL STATUS

[Date of request for examination]

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examiner's decision of rejection or application converted
registration]

[Date of final disposal for application]

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[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of
rejection]

[Date of extinction of right]